

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A device for operating a high-pressure discharge lamp, said device comprising:

a switched-mode power supply circuit for supplying power to the high-pressure discharge lamp from a supply voltage, the power supply circuit including at least one power switching element;

control means for controlling the switched-on and switched-off states of said power switching element for controlling the power or current supplied to the high-pressure discharge lamp;

wherein the control means are adapted to control the power consumed by the lamp during its steady phase or the current consumed by the lamp during its run-up phase by controlling the on-time (T_{on}) of the switched-on state of the at least one power switching element, wherein a value of the on-time (T_{on}) of the at

least one power switching element is a preset value.

2. (Currently Amended) A device according to claim 1, wherein ~~the value of the on-time (T_{on}) of the at least one power switching element is a preset value,~~ the preset value depending depends on the specifications of the ~~type of~~ discharge lamp used.

3. (Previously Presented) A device according to claim 1, wherein the on-time (T_{on}) of the at least one power switching element for a specific discharge lamp type is substantially constant.

4. (Previously Presented) A device according to claim 1, comprising:

input current determining means for determining the input current of the power supply, the input current determining means providing a signal representative of the determined input current;

a feedback means through which said signal is fed back to the control means, wherein the control means are adapted to control the on-time (T_{on}) of the at least one switching element as a function of

said feedback signal.

5. (Previously Presented) A device according to claim 1,
comprising

voltage determining means for determining the lamp voltage,
the voltage determining means providing a signal representative of
the determined lamp voltage,

a feedback means through which said signal is fed back to the
control means;

wherein the control means are adapted to control the on-time
(T_{on}) of the at least one power switching element as a function of
said feedback signal.

6. (Previously Presented) A device according to claim 1,
comprising a dim level means for setting a reduced lamp power
level, the dim level means providing a signal representative of the
dim level of the lamp, wherein the control means are adapted to
control the on-time (T_{on}) of the at least one power switching
element as a function of said signal.

7. (Previously Presented) A device according to claim 5, wherein the control means comprise a feedback controller for controlling the control means.

8. (Original) A device according to claim 7, wherein the control means are adapted to provide fast lamp power adjustments and the feedback controller is adapted to provide relatively slow lamp power adjustments.

9. (Previously Presented) A device according to claim 4 for operating a high-pressure discharge lamp, said device comprising:
a switched-mode power supply circuit for supplying power to the high-pressure discharge lamp from a supply voltage, the power supply circuit including at least one power switching element;
control means for controlling the switched-on and switched-off states of said power switching element for controlling the power or current supplied to the high-pressure discharge lamp;
wherein the control means are adapted to control the power consumed by the lamp during its steady phase or the current consumed by the lamp during its run-up phase by controlling the on-

time (T_{on}) of the switched-on state of the at least one power switching element, wherein the on-time (T_{on}) is iteratively adapted with a iteration frequency lower than ~~the~~ a switching frequency of the switched-mode power supply circuit.

10. (Previously Presented) A device according to claim 1, wherein the switching frequency of the switched-mode power supply is at least 100 kHz.

11. (Original) A device according to claim 9, wherein the iteration frequency is 100 Hz or less, preferably about 10 Hz or less.

12. (Previously Presented) A device according to claim 1, wherein use is made of a half or full-bridge power supply and a filter circuit comprising a series inductor (L) and at least one filter capacitor (C) parallel to the lamp.

13. (Previously Presented) A device according to claim 1, wherein the switched-mode power supply comprises a half-bridge or

full-bridge commutating forward topology.

14. (Previously Presented) A device according to claim 1, wherein the switched-mode power supply comprises a down-converter

15. (Currently Amended) A method of operating a high-pressure discharge lamp, comprising:

supplying power to the high-pressure discharge lamp from a supply voltage, using at least one power switching element;

controlling the power consumed by the lamp during its steady phase using control means; and

presetting a value of the on-time (T_{on}) of the at least one power switching element;

wherein said control means control the lamp power during the steady state of the lamp by fixing the on-time (T_{on}) of the at least one power switching element.

16. (Currently Amended) A method according to claim 15, ~~comprising presetting wherein the value of the on-time (T_{on}) of the at least one power switching element is preset depending on the~~

specifications of the ~~type of discharge lamp used~~.

17. (Previously Presented) A method according to claim 15, wherein the on-time (T_{on}) of the at least one power switching element is kept substantially constant.

18. (Previously Presented) A method according to claim 15, comprising determining the lamp voltage, providing a signal representative of the determined lamp voltage, feeding said signal back to the control means and adapting the on-time (T_{on}) of the at least one power switching element as a function of the determined lamp voltage.